

GT10-LDR Memory loader

User's Manual



Manual Number	JY997D29501F	
Date	April 2015	

This manual describes the part names, dimensions, mounting, and specifications of the product. Before use, read this manual and manuals of relevant products fully to acquire proficiency in handling and operating the product. Make sure to learn all the product information, safety information, and precautions.

And, store this manual in a safe place so that you can take it out and read it whenever necessary. Always forward it to the end user.

The company name and the product name to be described in this manual are the registered trademarks or trademarks of each company.

Effective April 2015

Specifications are subject to change without notice.

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Safety Precaution (Read these precautions before using.)

Before using this product, please read this manual and the relevant manuals introduced in this manual carefully and pay full attention to safety to handle the product correctly.

The precautions given in this manual are concerned with this product.

In this manual, the safety precautions are ranked as "WARNING" and "CAUTION".



Indicates that incorrect handling may cause hazardous conditions, resulting in death or severe injury.

Indicates that incorrect handling may cause hazardous conditions, resulting in medium or slight personal injury or physical damage.

Depending on circumstances, procedures indicated by "CAUTION" may also be linked to serious results.

In any case, it is important to follow the directions for usage

MOUNTING PRECAUTIONS

ACAUTION

Use the memory loader in the environment that satisfies the general specifications described in GT10 User's manual. Never use the product in areas with excessive dust, oily smoke, conductive dusts, corrosive gas (sall air, Cl2, H2S, SO2 or NO2), flammable gas, vibration or impacts, or exposed to high temperature, condensation, or rain and wind. Not doing so can cause an electric shock. fire. malfunction or product damage or deterioration.

STARTUP/MAINTENANCE PRECAUTIONS !\CAUTION

- Do not disassemble or modify the memory loader.
- Doing so can cause a failure, malfunction, injury or fire.
- Do not touch the conductive and electronic parts of the memory loade directly. Doing so can cause a memory loader malfunction or failure.
- When unplugging the cable connected to the GOT, do not hold and pull the cable portion. Doing so can cause the memory loader or cable to be damaged or can cause a malfunction due to a cable connection fault.
- Do not bent at a sharp angle or tie the memory loader cables.
 Doing so can cause the breaking of the cables.

DISPOSAL PRECAUTIONS _____CAUTION

. When disposing of the product, handle it as industrial waste.

TRANSPORTATION PRECAUTIONS

/ CAUTION

Make sure to transport the memory loader and/or relevant unit(s) in the manner they will not be exposed to the impact exceeding the impact resistance described in the general specifications of this manual, as they are precision devices. Failure to do so may cause the unit to fail.

Compliance with EC directive (CE Marking)

This note does not guarantee that an entire mechanical module produced in accordance with the contents of this note will comply with the following standards. Compliance to EMC directive for the entire mechanical module should be checked by the user / manufacturer. For more details please contact the local Mitsubishi Electric sales site.

Attention

- This product is designed for use in industrial applications.
- Authorized Representative in the European Community:
 Mitsubishi Electric Europe B.V.
 Gothaer Str. 8, 40880 Ratingen, Germany

Requirement for Compliance with EMC directive

The following products have shown compliance through direct testing (to the identified standards) and design analysis (forming a technical construction file) to the European Directive for Electromagnetic Compatibility (2004/108/EC) when used as directed by the appropriate documentation.

Type: Programmable Controller (Open Type Equipment)

Standard			Remark
	EN61131-2 : 2007	EMI	Compliance with all relevant aspects of the standard. (Radiated Emissions)
	Programmable controllers- Equipment, requirement and tests	EMS	Compliance with all relevant aspects of the standard. (ESD, RF electromagnetic field, EFTB, Surge, RF conducted disturbances and Power frequency magnetic field)

For more details please contact the local Mitsubishi Electric sales site.

Associated Manuals

The following manuals are relevant to this product. When these loose manuals are required, please consult with our local distributor.

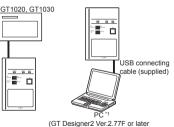
Manual name	Contents	Manual Number (Model Code)
GT10 User's Manual	Describes the GT10 hardware-relevant content such as part names, external dimensions, mounting, power supply wiring, specifications, and introduction to option devices. (sold separately)	JY997D24701 (09R819)
GT Designer2 Version2 Basic Operation/Data Transfer Manual (For GOT1000 Series)	Describes methods of the GT Designer2 installation operation, basic operation for drawing and transmitting data to GOT1000 series (sold separately)	SH-080529ENG (1D7M24)
GT Designer3 Version1 Screen Design Manual (For GOT1000 Series) (Fundamentals)	Describes methods of the GT Designer3 installation operation, basic operation for drawing and transmitting data to GOT1000 series (sold separately)	SH-080866ENG (1D7MB9)

Bundled Items

Bundled item	Quantity
GT10-LDR memory loader	1
USB cable (1m)	1
GT10-LDR Memory loader USER'S MANUAL (This manual)	1

1. Overview

GT10-LDR memory loader is the memory transfer module that reads/writes the data to GT10 or between a PC (GT Designer2 Ver.2.77F or later, GT Designer3 Ver.1.01B or later) and GT10-LDR



(GT Designer2 Ver.2.77F or later GT Designer3 Ver.1.01B or later)

*1 When GT10-LDR is connected to a PC via the USB hub, the power supply of the USB hub must be supplied by the AC adopter of the USB hub.
GT10-LDR connected to the USB hub may not work properly depending on the PC environment. In the case, connect the GT10-LDR directly to the USB port on the PC.

2. Specifications

2.1 General Specifications

Item		Specifications				
Operating ambient temperature	0 to 40°C	0 to 40°C				
Storage ambient temperature	-20 to 60°C					
Operating ambient humidity*1	10 to 90% RH, non-	condensing				
Storage ambient humidity*1	10 to 90% RH, non-	condensing				
			Frequency	Acceleration	Half-amplitude	Sweep Count
	Conforms to JIS	Under intermittent vibration	5 to 9Hz	-	3.5mm	10 times each in X, Y and Z directions
Vibration resistance	B3502 and IEC61131-2		9 to 150Hz	9.8m/s ²		
		Under continuous vibration	5 to 9Hz	-	1.75mm	
			9 to 150Hz	4.9m/s ²	-	
Shock resistance	Conforms to JIS B3	Conforms to JIS B3502, IEC 61131-2 (147 m/s ² , 3 times each in X, Y and Z directions)				
Operating atmosphere		Must be free of lamp black, corrosive gas, flammable gas, or excessive amount of electro conductive dust particles and must be no direct sunlight. (Same as for saving)				
Operating altitude*2	2000 m (6562 ft) ma	ax.				
Overvoltage category*3	II or less	II or less				
Pollution degree*4	2 or less	2 or less				
Cooling method	Self-cooling					

- *1 The wet bulb temperature is 39°C or less.
- *2 Do not use or store the GOT under pressure higher than the atmospheric pressure of altitude 0m (0ft.). Failure to observe this instruction may cause a malfunction. When the air inside the control panel is purged by pressurization, the surface sheet may be lifted by high pressure. As a result, the touch panel may be difficult to press, and the sheet may be peeled off.
- *3 This indicates the section of the power supply to which the equipment is assumed to be connected between the public electrical power distribution network and the machinery within the premises.
 Category II applies to equipment for which electrical power is supplied from fixed facilities.
- The surge voltage withstand level for up to the raged voltage of 300 V is 2500 V.

 4 This index indicates the degree to which conductive material is generated in the environment where the equipment is used. In pollution degree 2, only non-conductive pollution occurs but temporary conductivity may be produced due to condensation.

2.2 Performance Specifications

	Item		Specifications
	User memory*1		Flash ROM 7.5Mbyte
Memory			100,000 times
	POWER		green
LED	S	SET/RUN	green/red/orange
	Е	RROR	green/red/orange

	Item	Specifications
	RD/WR selection switch	Paddle switch
Switch	Data selection switch	
	ENT key	Tactile switch The use of 100 thousand times is due for replacement. (operating force 2.55N ± 0.69N)
	Write protection switch	Slide switch
External	dimensions	W70(2.75)×H110(4.33)×D21(0.82)[mm](inch)
Weight		0.2kg

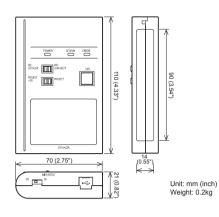
*1 ROM in which new data can be written without deleting the written data.

2.3 Communication Specifications

Item	Specifications				
GOT communication	Conforming to RS232 Transmission speed :115,200bps Connector shape : MINI DIN 6Pins (Male)				
PC communication	Conforms to USB2.0 (Full speed is supported.) (Performs the conversion between USB and serial in GT10-LDR. After serial conversion, transmission speed is 115.200bps.) Connector shape : USB MINI-B 5Pins (Receptacle)				

3. External Dimensions

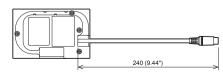
External Dimensions



2.4 Power Supply Specifications

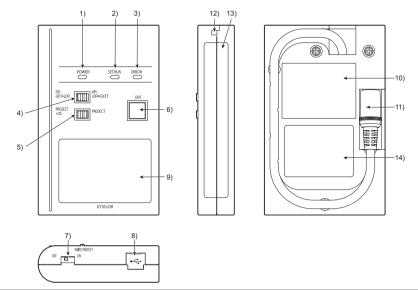
cc. capp.y opcomouncing		
Item	Specifications	
Input power supply voltage	DC5V (DC4.75 to 5.25V) Supplied from the GOT or PC (Supplied from bus power)	
Fuse	-	
Power consumption	0.7W (140mA/DC5V) or less	

Cable length



Unit: mm (inch)

4. Part Name



No.	Name	Specifications		
1)	POWER LED	LED to show power status		
2)	SET/RUN LED	LED to show that the settings are being checked/the transfer is running		
3)	ERROR LED	RROR LED LED to show error status		
4)	4) RD/WR selection switch Switch to select read/write direction			
5)	5) Data selection switch Switch to select the data to be transferred			
6)	ENT key	Switch to determine the transfer direction and the data to be transferred, and to start the transfer		

No. Name Specifications		Specifications	
7)	Write protection switch	Switch to prevent the memory loader from being written to the data	
8)	USB port	Connection port with a PC (with protection cap)	
9)	Reference plate (operating instructions)	ing instructions) Described operating instructions of the memory loader	
10)	Reference plate (error contents)	Described lighting status of ERROR LED	
11)	Transfer cable	Cable to be connected with the GOT	
12)	Strap hole	A hole to attach a strap	
13)	Part to be labeled	Space to be labeled (created by user)	
14)	Rating plate (Nameplate)	-	

5. LED lighting specification

LED Name	Status	Contents
POWER	POWER LED is lit.	Power is supplied.
FOWER	POWER LED is not lit.	Power is not supplied.
	POWER LED is not lit.	Before starting the transfer.
	Orange light	The transfer direction and the data to be transferred are determined.
SET/RUN	Green flashing	The transfer is running.
	Green light	The transfer is completed.
	Red flashing	The transfer is aborted.
	POWER LED is not lit.	No errors
	Green light*1	Write protection switch ON
	Green flashing*1	The GOT type that is set in the data to be transferred differs from that of the GOT to which the data is transferred.
ERROR	Red light*1	The data to be transferred is broken. The major version of the standard monitor OS is different from that of the project data.
	Red flashing*1	Communication error occurs between the GOT and the memory loader.
	Red ⇔ Green*1	Password is set in the project data.
	Orange ⇔ Green*1	OS installation screen is not active

^{*1} An error message appears on the GOT screen. Apply remedies according to the display. Refer to the "Chapter 12 Troubleshooting" for details on handling errors.

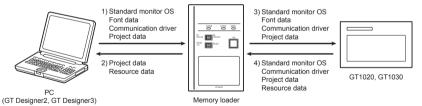
6. Switch operation specification

Switch Name	Specifications
RD/WR selection switch	Switch to select read/write direction RD : The data is read out from the GOT to the memory loader. WR : The data is written from the memory loader to the GOT.
Data selection switch	Switch to select the data to be transferred • When reading out the data from the GOT to the memory loader [PROJECT + OS]: The standard monitor OS, communication driver, project data, and resource data are read out from the GOT to the memory loader. [PROJECT]: The project data and resource data are read out from the GOT to the memory loader. • When writing the data from the memory loader to the GOT [PROJECT + OS]: The standard monitor OS, font data, communication driver, and project data are written from the memory loader to the GOT. [PROJECT]: The project data is written from the memory loader to the GOT.
Write protection switch	Switch to prevent the memory loader from being written to the data ON: The data cannot be written neither from the GOT or a PC (GT Designer2, GT Designer3) to the memory loader. OFF: The data can be written from the GOT or a PC (GT Designer2, GT Designer3) to the memory loader.
ENT key	Switch to determine the transfer direction and the data to be transferred, and to start the transfer The transfer starts by pressing the key twice. **The first pressing of the key determines the read/write direction and the data to be transferred. (After the read/write direction and the data to be transferred are determined, if RD/WR selection switch and Data selection switch are operated, the operations that have been made will be canceled.) (The ENT key must be pressed within 30 seconds after the first pressing of the ENT key. Failure to do so cancels the operations that have been made.) **The second pressing of the key starts the transfer.

^{*1} When the standard monitor OS and communication driver are transferred from the memory loader to the GOT, starting up the GOT with OS installation screen is required.

7. Function specification

7.1 Transfer function



O: Available to transfer v : Unavailable to transfer

O. Available to translet in a state of translet in a state of translet to translet to translet to translet to translet in translet to translet in tran								
	Data	Transfer data						
Transfer direction	selection switch	Project data	Resource data	Standard monitor OS	Font data*2	Communication driver	Operation	
1) PC → Memory loader		0	×	0	O*3	0	After all data in the memory loader is deleted, the data selected with GT Designer2 or GT Designer3 is written to the memory loader all at once.	
2) Memory loader → PC		0	0	×	×	×	The project data or resource data is read out from the memory loader to a PC.	
3) Memory loader →	PROJECT + OS	0	×	0	O*4	0	All data in the memory loader is written to the GOT.	
GOT	PROJECT	0	×	×	×	×	Only the project data in the memory loader is written to the GOT.	
4) GOT →	PROJECT + OS*1	0	0	0	×	0	After all data in the memory loader is deleted, all data in the GOT is read out to the memory loader.	
Memory loader	PROJECT	0	0	×	×	×	After all data in the memory loader is deleted, only the project data and resource data in the GOT are read out to the memory loader.	

- *1 Ver 01 08 00 or later of the standard monitor OS of the GT10 is applicable
- *2 Ver.01.11.00 or later of the standard monitor OS of the GT10 is applicable
- *3 Ver. 2.91V or later of GT Designer2 or Ver. 1.01B or later of GT Designer3 are applicable.

7.2 Password reset function on the GOT

When reading out the project data from the memory loader, if the password is set in the project data, password entry screen will appear on the GOT.

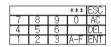
After entering the password, password is reset by pressing the ENT key on the screen. The data will be transferred from the GOT to the memory loade The operation procedure is described below

When this function is used, Ver.01.08.00 or later of the standard monitor OS of the GT10 is required

1) When the upload is started, password entry screen will appear on the GOT Touch the "INPUT" key.



2) After inputting password, touch the "ENT"



3) When the password matches, a message notifying Password correct is display Touch the ESC button to close the screen.



When the password does not match, an error message is displayed

If OK button is touch it returns to the password input screen again.



*4 It takes longer time to transfer the font data than to transfer the standard monitor OS and communication driver.

(It takes approximately 1 minute and 45 seconds to transfer "Standard monitor OS + Communication driver". It takes approximately 8 minutes to transfer "Standard monitor OS + Communication driver + Font data".) Japanese (supporting Europe) is installed in the GT10 before shipment from

It is not necessary to transfer the font data when the used font is not changed.

7.3 Error display function

If an error occurs between the GOT and the memory loader during the transfer, an error message will appear on the GOT screen.

Apply remedies according to the display. Chapter 12 Troubleshooting

Turning OFF and ON the power or touching the screen will close the error message

When this function is used, Ver.01.08.00 or later of the standard monitor OS of the GT10 is required.



Error message on the GOT

8. Installation of Driver, Setting Software

When the communication between a PC (GT Designer? Ver 2 77F or later GT Designer3 Ver.1.01B or later) and the memory loader is performed, driver installation communication port setting is required

8.1 Driver installation

When the communication between a PC (GT Designer2, GT Designer3) and the memory loader is performed, driver installation is required. Refer to the following manual for details about driver installation

GT Designer2 Version □ Basic Operation/Data Transfer Manual GT Designer3 Version ☐ Screen Design Manual (Fundamentals)

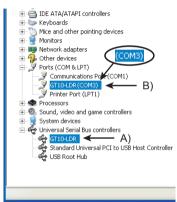
8.2 Confirmation of communication port

Windows® XP example follows

- In Windows® XP. click [Start] \rightarrow [Settings] \rightarrow [Control Panel] \rightarrow [Performance and Maintenance] → [System] → [Hardware] → [Device Manager (D)] and the window below will be displayed Please confirm the COM number to which the USB driver is allocated (COM and
- If using Windows® 98. Windows® 98SE, Windows® Millennium Edition or Windows® 2000

A screen that is equivalent to the one below is displayed by clicking [My Computer] → [Control Panel] → [System] → [Device Manager] in the menu of the personal computer

 If using Windows® Vista. A screen that is equivalent to the one below is. displayed by clicking [Start] → [Control Panel] → [Device Manager] in the menu of the personal computer.



Check following:

- GT10-I DR is indicated at A)
- GT10-LDR (COM *) is indicated at B).
- * indicates the COM number used in Memory loader.
- Install the GT Designer2 or GT Designer3 again when !! is displayed. Select the GT Designer2 or GT Designer3 COM number as the COM number currently assigned on the screen above.

8.3 Setting GT Designer2

Click [Communication] → [Communicate with GT10-LDR] → [Communication configuration tab 1.

Select the same COM number as the COM number of the personal computer when the setting communication port screen appears. Click [I Indate]



8.4 Setting GT Designer3

Click [Communication 1 → [Communicate with GT10-LDR... 1 to display the communicate with GT10-LDR screen.

Click the [Communication Configuration...] tab to display the communication configuration dialog

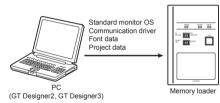
Select the same COM number as the COM number of the personal computer when the setting communication port screen appears. Click [OK].



9. Transfer procedures between a PC and the Memory loader

9.1 To write the data from a PC (GT Designer2 Ver.2.77F or later. GT Designer3 Ver.1.01B or later) to the memory loader

The standard monitor OS, communication driver, font data, and project data are written from a PC (GT Designer2, GT Designer3) to the memory loader. The operation procedure is described below.



- 1) Turn OFF the Write protection switch
- 2) Connect a PC (GT Designer2, GT Designer3) to the memory loader with USB cable supplied.
- 3) Write the data from a PC (GT Designer2, GT Designer3) to the memory loader.

Refer to the following manual for details about operating instructions of GT Designer2 or GT Designer3

GT Designer2 Version | Basic Operation/Data Transfer Manual GT Designer3 Version

Screen Design Manual (Fundamentals)

9.2 To read out the data from the memory loader to a PC (GT Designer2 Ver.2.77F or later, GT Designer3 Ver.1.01B or

The project data and resource data are read out from the memory loader to a PC (GT Designer2, GT Designer3). The operation procedure is described below



- 1) Connect a PC (GT Designer2, GT Designer3) to the memory loader with USB cable supplied
- 2) Select the data to be uploaded in a PC (GT Designer2, GT Designer3) and read it out from the memory loader

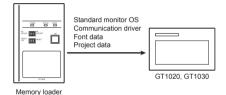
Refer to the following manual for details about operating instructions of GT Designer2 or GT Designer3

☐ GT Designer2 Version ☐ Basic Operation/Data Transfer Manual GT Designer3 Version □ Screen Design Manual (Fundamentals)

10. To write the data from the Memory loader to the GOT

The standard monitor OS, communication driver, font data, and project data are written from the memory loader to the GOT. The operation procedure is described

10.1 When the Data selection switch is [PROJECT + OS]



- 1) Connect the memory loader to the GOT.
- 2) Turn ON the GOT by pressing the lower right corner of the GOT. (The GOT startups with OS installation screen.)

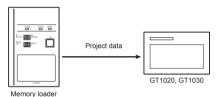
The OS can be transferred from GT Designer2 Version2 or GT Designer3 Version □ without displaying the OS installation screen depending on the combination of the GOT and the standard monitor OS

Refer to the following manual for details about OS installation screen.

- 3) Set the Data selection switch to IPROJECT + OSI and the RD/WR selection switch to [WR], and select the data to be transferred and transfer direction.
- 4) Press the ENT key to determine the data to be transferred and transfer direction. (SET/RUN LED will be orange.)
- *: If the next operation is not performed within 30 seconds after the ENT key is pressed, SET/RUN LED will be unlit, and the operations that have been made will be canceled
- *: When the Data selection switch or the RD/WR selection switch is operated, after the data to be transferred and the transfer direction are determined, the operations that have been made will be canceled
- 5) Press the ENT key again to start the transfer. (SET/RUN LED will be green
- 6) Turn OFF the GOT and remove the memory loader after the transfer is completed. (SET/RUN LED will be green flashing.)

Refer to the "Chapter 12 Troubleshooting" for details on handling errors during transferring.

10.2 When the Data selection switch is [PROJECT]



- 1) Connect the memory loader to the GOT and turn ON the GOT.
- 2) Set the Data selection switch to [PROJECT] and the RD/WR selection switch to [WR], and select the data to be transferred and transfer direction.
- 3) Press the ENT key to determine the data to be transferred and transfer direction (SET/RUN LED will be orange.)
- *: If the next operation is not performed within 30 seconds after the ENT key is pressed. SET/RUN LED will be unlit, and the operations that have been made will
- : When the Data selection switch or the RD/WR selection switch is operated. after the data to be transferred and the transfer direction are determined, the operations that have been made will be canceled
- 4) Press the ENT key again to start the transfer. (SET/RUN LED will be green.
- 5) Turn OFF the GOT and remove the memory loader after the transfer is completed. (SET/RUN LED will be green flashing.)

Refer to the "Chapter 12 Troubleshooting" for details on handling errors during

11. To read out the data from the GOT to the Memory loader

The standard monitor QS, communication driver, project data, and resource data are read out from the GOT to the memory loader. The operation procedure is described below

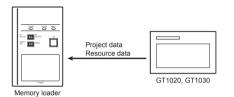
11.1 When the Data selection switch is [PROJECT + OS]



- 1) Turn OFF the Write protection switch.
- 2) Connect the memory loader to the GOT and turn ON the GOT.
- 3) Set the Data selection switch to [PROJECT + OS] and the RD/WR selection switch to [RD], and select the data to be transferred and transfer direction.
- 4) Press the ENT key to determine the data to be transferred and transfer direction. (SET/RUN LED will be orange.) * If the next operation is not performed within 30 seconds after the ENT key is
- pressed, SET/RUN LED will be unlit, and the operations that have been made will he canceled
- *: When the Data selection switch or the RD/WR selection switch is operated. after the data to be transferred and the transfer direction are determined, the operations that have been made will be canceled
- 5) Press the ENT key again to start the transfer. (SET/RUN LED will be green
- 6) Turn OFF the GOT and remove the memory loader after the transfer is completed. (SET/RUN LED will be green flashing.)

Refer to the "Chapter 12 Troubleshooting" for details on handling errors during

11.2 When the Data selection switch is [PROJECT]



- 1) Turn OFF the Write protection switch.
- 2) Connect the memory loader to the GOT and turn ON the GOT
- 3) Set the Data selection switch to [PROJECT] and the RD/WR selection switch to [RD], and select the data to be transferred and transfer direction.
- 4) Press the ENT key to determine the data to be transferred and transfer direction. (SET/DLIN LED will be orange)
- *: If the next operation is not performed within 30 seconds after the ENT key is pressed, SET/RUN LED will be unlit, and the operations that have been made will be
- *: When the Data selection switch or the RD/WR selection switch is operated, after the data to be transferred and the transfer direction are determined, the operations that have been made will be canceled.
- 5) Press the ENT key again to start the transfer. (SET/RUN LED will be green flashing.)
- 6) Turn OFF the GOT and remove the memory loader after the transfer is completed. (SET/RUN LED will be green flashing.)

Refer to the "Chapter 12 Troubleshooting" for details on handling errors during

12. Troubleshooting

12.1 GOT error message

When communication between the GOT and the memory loader does not work, check the following contents depending on the GOT error messages

GOT error message	Remedy
Write protection switch is ON	Write protection switch ON Turn OFF the Write protection switch.
Wrong GOT model is connected	The GOT type that is set in the data to be transferred differs from that of the GOT to which the data is transferred. Check the GOT type to which the memory loader is connected.
Corrupt data or OS version variance	The data to be transferred is broken, or the major version of the standard monitor OS is different from that of the project data. • Write the standard monitor OS, communication driver, and project data from GT Designer2 or GT Designer3 to the memory loader again, and then transfer them to the GOT again. • Set the Data selection switch to [PROJECT + OS] and read out all data from the GOT to the memory loader, and then transfer them to the GOT again.
Communication error	Communication error occurs between the GOT and the memory loader. • Check the connection with the communication cable. • Check that power supply is stable. (lighting of POWER LED)
GOT contains a system password	Password is set in the project data. Reset the password with the numeric keypad on the GOT.
OS installation screen isn't active	OS installation screen is not active Install the data after the OS installation screen is displayed on the GOT.

12.2 LED display on the memory loader

State of

POWER LED

If communication cannot be established between the GOT and a PC using memory loader, confirm the following status by checking display LED in memory loader

Contents

POWER LED is lit.	The DC5V power supply from the GOT or the personal computer is normally supplied. In case of no communication, check the status of ERROR LED.
POWER LED is not lit.	The DC 5V power supply from the GOT or the personal computer is not supplied. Check the items below. • Turn ON the power. • Check the connection with the USB cable. • Check the connection with the GOT. • Check that PLC is not overloaded when PLC supplies the power to the GOT connected to the memory loader.
State of ERROR LED	Contents
Green light	Write protection switch ON Turn OFF the Write protection switch.
Green flashing	The GOT type that is set in the data to be transferred differs from that of the GOT to which the data is transferred. Check the GOT type to which the memory loader is connected.
Red light	The data to be transferred is broken, or the major version of the standard monitor OS is different from that of the project data. • Write the standard monitor OS, communication driver, and project data from GT Designer2 or GT Designer3 to the memory loader again, and then transfer them to the GOT again. • Set the Data selection switch to [PROJECT + OS] and read out all data from the GOT to the memory loader, and then transfer them to the GOT again.
Red flashing	Communication error occurs between the GOT and the memory loader. • Check the connection with the communication cable. • Check that power supply is stable. (lighting of POWER LED)
Red ⇔ Green	Password is set in the project data. Reset the password with the numeric keypad on the GOT.

OS installation screen is not active

the GOT

Install the data after the OS installation screen is displayed on

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Orange ⇔

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- Before using the product for special purposes such as nuclear power, electric power, aerospace, medicine or passenger movement vehicles, consult with
- This product has been manufactured under strict quality control. However when installing the product where major accidents or losses could occur if the product fails, install appropriate backup or failsafe functions in the system.

MITSUBISHI ELECTRIC CORPORATION

HEAD OFFICE: TOKYO BUILDING, 2-7-3 MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, JAPAN



GT10-LDR Memory loader

User's Manual



Manual Number	JY997D29501F
Date	April 2015

This manual describes the part names, dimensions, mounting, and specifications of the product. Before use, read this manual and manuals of relevant products fully to acquire proficiency in handling and operating the product. Make sure to learn all the product information, safety information, and precautions. And, store this manual in a safe place so that you can take it out and read it whenever necessary. Always forward it to the end user.

The company name and the product name to be described in this manual are the registered trademarks or trademarks of each company.

Effective April 2015

Specifications are subject to change without notice.
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 $\textbf{Safety Precaution} \ (\textbf{Read these precautions before using.})$

Before using this product, please read this manual and the relevant manuals introduced in this manual carefully and pay full attention to safety to handle the product carefully.

product correctly.

The precautions given in this manual are concerned with this product.

In this manual, the safety precautions are ranked as "WARNING" and "CAUTION".

<u></u> <u></u> <u></u> <u></u> <u></u> <u> </u> <u> </u> 	Indicates that incorrect handling may cause hazardous conditions, resulting in death or severe injury.
 △ CAUTION	Indicates that incorrect handling may cause hazardous conditions, resulting in medium or slight personal injury or physical damage.

Depending on circumstances, procedures indicated by "CAUTION" may also be linked to serious results.

MOUNTING PRECAUTIONS _____CAUTION

Use the memory loader in the environment that satisfies the general specifications described in GT10 User's manual. Never use the product in areas with excessive dust, oily smoke, conductive dusts, corrosive gas (sali air, Cl2, H2S, SO2 or NO2), flammable gas, vibration or impacts, or exposed to high temperature, condensation, or rain and wind. Not doing so can cause an electric shock, fire, malfunction or product damage or deterioration.

PRECAUTIONS	 ∴ CAUTION
Do not disassemble or mod	dify the memory loader.

- Doing so can cause a failure, malfunction, injury or fire.
- Do not touch the conductive and electronic parts of the memory load directly. Doing so can cause a memory loader malfunction or failure. When unplugging the cable connected to the GOT, do not hold and pull the cable portion. Doing so can cause the memory loader or cable to be damaged or can cause a malfunction due to a cable connection fault.
- Do not bent at a sharp angle or tie the memory loader cables. Doing so can cause the breaking of the cables.

DISPOSAL PRECAUTIONS	∴ CAUTION
When disposing of the production	luct, handle it as industrial waste.

TRANSPORTATIO
PRECAUTIONS

!CAUTION

Make sure to transport the memory loader and/or relevant unit(s) in the manner they will not be exposed to the impact exceeding the impacr resistance described in the general specifications of this manual, as they are pre

Compliance with EC directive (CE Marking)

This note does not guarantee that an entire mechanical module produced in accordance with the contents of this note will comply with the following standards. Compliance to EMC directive for the entire mechanical module should be checked by the user / manufacturer. For more details please contact the local Mitsubishi Electric

Attention

- This product is designed for use in industrial applications.
 Authorized Representative in the European Community:
 Mitsubishi Electric Europe B.V.
 Gothaer Str. 8, 40880 Ratingen, Germa

Requirement for Compliance with EMC directive
The following products have shown compliance through direct testing (to the identified standards) and design analysis (forming a technical construction file) to the European Directive for Electromagnetic Compatibility (2004/108/EC) when used as directed by the appropriate documentation.
Type: Programmable Controller (Open Type Equipment)

Standard		Remark
EN61131-2 : 2007	EMI	Compliance with all relevant aspects of the standard. (Radiated Emissions)
Programmable controllers- Equipment, requirement and tests		Compliance with all relevant aspects of the standard. (ESD, RF electromagnetic field, EFTB, Surge, RF conducted disturbances and Power frequency magnetic field)

For more details please contact the local Mitsubishi Electric sales site.

Associated Manuals

ng manuals are relevant to this product. When these loose manuals are

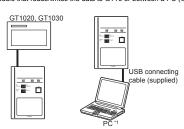
Manual name	Contents	Manual Number (Model Code)
GT10 User's Manual	Describes the GT10 hardware-relevant content such as part names, external dimensions, mounting, power supply wiring, specifications, and introduction to option devices. (sold separately)	JY997D24701 (09R819)
GT Designer2 Version2 Basic Operation/Data Transfer Manual (For GOT1000 Series)	Describes methods of the GT Designer2 installation operation, basic operation for drawing and transmitting data to GOT1000 series (sold separately)	SH-080529ENG (1D7M24)
GT Designer3 Version1 Screen Design Manual (For GOT1000 Series) (Fundamentals)	Describes methods of the GT Designer3 installation operation, basic operation for drawing and transmitting data to GOT1000 series (sold separately)	SH-080866ENG (1D7MB9)

Bundled Items

Bundled item	Quantity
GT10-LDR memory loader	1
USB cable (1m)	1
GT10-LDR Memory loader USER'S MANUAL (This manual)	1

1. Overview

GT10-LDR memory loader is the memory transfer module that reads/writes the data to GT10 or between a PC (GT Designer2 Ver.2.77F or later, GT Designer3 Ver.1.01B or later) and GT10-LDR.



(GT Designer2 Ver.2.77F or later GT Designer3 Ver.1.01B or later)

*1 When GT10-LDR is connected to a PC via the USB hub, the power supply of the USB hub must be supplied by the AC adopter of the USB hub. GT10-LDR connected to the USB hub may not work properly depending on the PC environment. In the case, connect the GT10-LDR directly to the USB port on the PC.

2.1 General Specifications

item	Specifications						
Operating ambient temperature	0 to 40°C						
Storage ambient temperature	-20 to 60°C						
Operating ambient humidity*1	10 to 90% RH, non-	10 to 90% RH, non-condensing					
Storage ambient humidity*1	10 to 90% RH, non-	10 to 90% RH, non-condensing					
			Frequency	Acceleration	Half-amplitude	Sweep Count	
	Conforms to JIS B3502 and IEC61131-2	Under intermittent vibration	5 to 9Hz	-	3.5mm	10 times each in X, Y and Z directions	
Vibration resistance			9 to 150Hz	9.8m/s ²	-		
		Under continuous	5 to 9Hz	-	1.75mm		
		vibration	9 to 150Hz	4.9m/s ²	-	1	
Shock resistance	Conforms to JIS B3502, IEC 61131-2 (147 m/s², 3 times each in X, Y and Z directions)						
Operating atmosphere	Must be free of lamp black, corrosive gas, flammable gas, or excessive amount of electro conductive dust particles and must be no direct sunlight. (Same as for saving)						
Operating altitude*2	2000 m (6562 ft) max.						
Overvoltage category*3	II or less						
Pollution degree*4	2 or less						
Cooling method	Self-cooling						

- *1 The wet bulb temperature is 39°C or less.
- *2 Do not use or store the GOT under pressure higher than the atmospheric pressure of altitude 0m (0ft.). Failure to observe this instruction may cause a malfunction. When the air inside the control panel is purged by pressurization, the surface sheet may be lifted by high pressure. As a result, the touch panel may be difficult to press and the sheet may be peeled off.
- *3 This indicates the section of the power supply to which the equipment is assumed to be connected between the public electrical power distribution network and the machinery within the premises. machinery within the premises. Category II applies to equipment for which electrical power is supplied from fixed facilities. The surge voltage withstand level for up to the raged voltage of 300 V is 2500 V.
- *4 This index indicates the degree to which conductive material is generated in the environment where the equipment is used. In pollution degree 2, only non-conductive pollution occurs but temporary conductivity may be produced due to condensation
- 2.2 Performance Specifications

	Item	Specifications		
	User memory*1	Flash ROM 7.5Mbyte		
Memory	Life (Number of write times)	100,000 times		
	POWER	green		
LED SET/RUN		green/red/orange		
ERROR		green/red/orange		

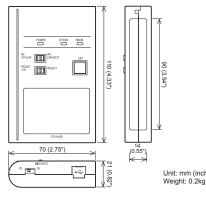
	Item	Specifications		
	RD/WR selection switch	Paddle switch		
	Data selection switch			
Switch	ENT key	Tactile switch The use of 100 thousand times is due for replacement. (operating force 2.55N \pm 0.69N)		
	Write protection switch	Slide switch		
External dimensions		W70(2.75)×H110(4.33)×D21(0.82)[mm](inch)		
Weight		0.2kg		

*1 ROM in which new data can be written without deleting the written data

2.3 Communication Specifications

Item	Specifications
GOT communication	Conforming to RS232 Transmission speed :115,200bps Connector shape : MINI DIN 6Pins (Male)
PC communication	Conforms to USB2.0 (Full speed is supported.) (Performs the conversion between USB and serial in GT10-LDR. After serial conversion, transmission speed is 115.200bps.) Connector shape : USB MINI-B 5Pins (Receptacle)

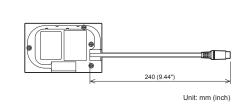
3. External Dimensions

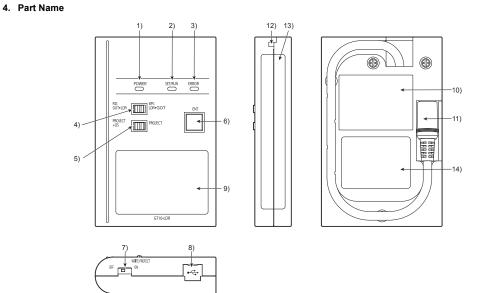


2.4 Power Supply Specifications

Item	Specifications
Input power supply voltage	DC5V (DC4.75 to 5.25V) Supplied from the GOT or PC (Supplied from bus power)
Fuse	-
Power consumption	0.7W (140mA/DC5V) or less

Cable length





No.	Name	Specifications
1)	POWER LED	LED to show power status
2)	SET/RUN LED	LED to show that the settings are being checked/the transfer is running
3)	ERROR LED	LED to show error status
4)	RD/WR selection switch	Switch to select read/write direction
5)	Data selection switch	Switch to select the data to be transferred
6)	ENT key	Switch to determine the transfer direction and the data to be transferred, and to start the transfer

No.	Name	Specifications				
7)	Write protection switch	Switch to prevent the memory loader from being written to the data				
8)	USB port	Connection port with a PC (with protection cap)				
9)	Reference plate (operating instructions)	Described operating instructions of the memory loader				
10)	Reference plate (error contents)	Described lighting status of ERROR LED				
11)	Transfer cable	Cable to be connected with the GOT				
12)	Strap hole	A hole to attach a strap				
13)	Part to be labeled	Space to be labeled (created by user)				
14)	Rating plate (Nameplate)	-				

5. LED lighting specification

LED Name	Status	Contents					
POWER	POWER LED is lit.	Power is supplied.					
POWER	POWER LED is not lit.	Power is not supplied.					
	POWER LED is not lit.	Before starting the transfer.					
	Orange light	The transfer direction and the data to be transferred are determined.					
Gı	Green flashing	The transfer is running.					
	Green light	The transfer is completed.					
	Red flashing	The transfer is aborted.					
	POWER LED is not lit.	No errors					
	Green light*1	Write protection switch ON					
	Green flashing*1	The GOT type that is set in the data to be transferred differs from that of the GOT to which the data is transferred.					
ERROR	Red light*1	The data to be transferred is broken. The major version of the standard monitor OS is different from that of the project data.					
	Red flashing*1	Communication error occurs between the GOT and the memory loader.					
	Red ⇔ Green*1	Password is set in the project data.					
	Orange ⇔ Green*1	OS installation screen is not active					

^{*1} An error message appears on the GOT screen. Apply remedies according to the display. Refer to the "Chapter 12 Troubleshooting" for details on handling errors.

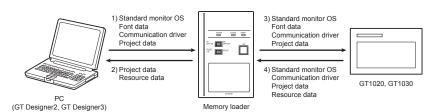
6. Switch operation specification

Switch Name	Specifications Specification Spe
RD/WR selection switch	Switch to select read/write direction RD : The data is read out from the GOT to the memory loader. WR : The data is written from the memory loader to the GOT.
Data selection switch	Switch to select the data to be transferred • When reading out the data from the GOT to the memory loader [PROJECT + OS]: The standard monitor OS, communication driver, project data, and resource data are read out from the GOT to the memory loader. [PROJECT]: The project data and resource data are read out from the GOT to the memory loader. • When writing the data from the memory loader to the GOT [PROJECT] = Standard monitor OS, font data, communication driver, and project data are written from the memory loader to the GOT. [PROJECT]: The project data is written from the memory loader to the GOT.
Write protection switch	Switch to prevent the memory loader from being written to the data ON: The data cannot be written neither from the GOT or a PC (GT Designer2, GT Designer3) to the memory loader. OFF: The data can be written from the GOT or a PC (GT Designer2, GT Designer3) to the memory loader.
ENT key	Switch to determine the transfer direction and the data to be transferred, and to start the transfer The transfer starts by pressing the key twice. **The first pressing of the key determines the read/write direction and the data to be transferred. (After the read/write direction and the data to be transferred are determined, if RD/WR selection switch and Data selection switch are operated, the operations that have been made will be canceled.) (The ENT key must be pressed within 30 seconds after the first pressing of the ENT key. Failure to do so cancels the operations that have been made.) **The second pressing of the key starts the transfer.

^{*1} When the standard monitor OS and communication driver are transferred from the memory loader to the GOT, starting up the GOT with OS installation screen is

7. Function specification

7.1 Transfer function



O: Available to transfer x: Unavailable to transfer

	Data selection switch	Transfer data					
Transfer direction		Project data	Resource data	Standard monitor OS	Font data*2	Communication driver	Operation
1) PC → Memory loader		0	×	0	O*3	0	After all data in the memory loader is deleted, the data selected with GT Designer2 or GT Designer3 is written to the memory loader all at once.
 Memory loader → PC 		0	0	×	×	×	The project data or resource data is read out from the memory loader to a PC.
3) Memory loader → GOT	PROJECT + OS	0	×	0	O*4	0	All data in the memory loader is written to the GOT.
	PROJECT	0	×	×	×	×	Only the project data in the memory loader is written to the GOT.
4) GOT →	PROJECT + OS*1	0	0	0	×	0	After all data in the memory loader is deleted, all data in the GOT is read out to the memory loader.
Memory loader	PROJECT	0	0	×	×	×	After all data in the memory loader is deleted, only the project data and resource data in the GOT are read out to the memory loader.
*1 Ver.01.08.00 or later of the standard monitor OS of the GT10 is applicable. *4 It takes longer time to transfer the font data than to transfer the standard							

- *1 Ver.01.08.00 or later of the standard monitor OS of the GT10 is applicable.
- *2 Ver.01.11.00 or later of the standard monitor OS of the GT10 is applicable
- *3 Ver. 2.91V or later of GT Designer2 or Ver. 1.01B or later of GT Designer3 are

7.2 Password reset function on the GOT

When reading out the project data from the memory loader, if the password is set in the project data, password entry screen will appear on the GOT After entering the password, password is reset by pressing the ENT key on the screen. The data will be transferred from the GOT to the memory loader The operation procedure is described below.

When this function is used, Ver.01.08.00 or later of the standard monitor OS of the

When the upload is started, password entry screen will appear on the GOT Touch the "INPUT" key.



GT10-LDR Info. ESC

Password correct

PASSWORD IS

INCORRECT

2) After inputting password, touch the "ENT"

3) When the password matches, a message notifying Password correct is display Touch the ESC button to close the

When the password does not match, an error message is displayed.

If $\boxed{\mbox{OK}}$ button is touch it returns to the



7.3 Error display function If an error occurs between the GOT and the memory loader during the transfer, an error message will appear on the GOT screen. Apply remedies according to the display.

Chapter 12 Troubleshooting

Turning OFF and ON the power or touching the screen will close the error message

en this function is used, Ver.01.08.00 or later of the standard monitor OS of the



8. Installation of Driver, Setting Software

When the communication between a PC (GT Designer2 Ver.2.77F or later, GT Designer3 Ver.1.01B or later) and the memory loader is performed, driver installation. installation, communication port setting is required.

8.1 Driver installation

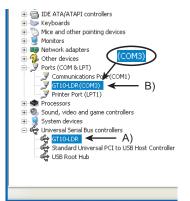
When the communication between a PC (GT Designer2, GT Designer3) and the memory loader is performed, driver installation is required. Refer to the following manual for details about driver installation.

GT Designer2 Version
Basic Operation/Data Transfer Manual GT Designer3 Version ☐ Screen Design Manual (Fundamentals)

8.2 Confirmation of communication port

Windows® XP example follows.

- In Windows® XP, click [Start] → [Settings] → [Control Panel] → [Performance and Maintenance] → [System] → [Hardware] → [Device Manager (D)] and the window below will be displayed. Please confirm the COM number to which the USB driver is allocated (COM and
- If using Windows® 98, Windows® 98SE, Windows® Millennium Edition on
- Windows® 2000
 A screen that is equivalent to the one below is displayed by clicking [My Computer] → [Control Panel] → [System] → [Device Manager] in the menu of the personal computer.
- If using Windows[®] Vista. A screen that is equivalent to the one below is displayed by clicking [Start] → [Control Panel] → [Device Manager] in the menu of the personal computer.

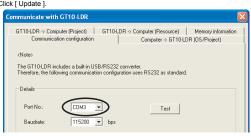


- GT10-LDR is indicated at A)
- GT10-LDR (COM *) is indicated at B).
 * indicates the COM number used in Memory loader.

Install the GT Designer2 or GT Designer3 again when !! is displayed.
 Select the GT Designer2 or GT Designer3 COM number as the COM number currently assigned on the screen above.

8.3 Setting GT Designer2

Click [Communication] \rightarrow [Communicate with GT10-LDR] \rightarrow [Communication



8.4 Setting GT Designer3

Click [Communication] \to [Communicate with GT10-LDR...] to display the communicate with GT10-LDR screen.

Click the [Communication Configuration...] tab to display the communication configuration dialog.

Select the same COM number as the COM number of the personal computer when the setting communication port screen appears.



9. Transfer procedures between a PC and the Memory loader

9.1 To write the data from a PC (GT Designer2 Ver.2.77F or later. GT Designer3 Ver.1.01B or later) to the memory loader

The standard monitor OS, communication driver, font data, and project data are written from a PC (GT Designer2, GT Designer3) to the memory loader. The operation procedure is described below.



1) Turn OFF the Write protection switch

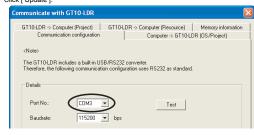
2) Connect a PC (GT Designer2, GT Designer3) to the memory loader with USB

3) Write the data from a PC (GT Designer2, GT Designer3) to the memory loader.

Refer to the following manual for details about operating instructions of GT Designer2 or GT Designer3.

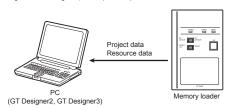
GT Designer2 Version ☐ Basic Operation/Data Transfer Manual GT Designer3 Version ☐ Screen Design Manual (Fundamentals)

Select the same COM number as the COM number of the personal computer when the setting communication port screen appears.



Designer2 Ver.2.77F or later, GT Designer3 Ver.1.01B or

The project data and resource data are read out from the memory loader to a PC (GT Designer2, GT Designer3). The operation procedure is described below



1) Connect a PC (GT Designer2, GT Designer3) to the memory loader with USB cable supplied

2) Select the data to be uploaded in a PC (GT Designer2, GT Designer3) and read it

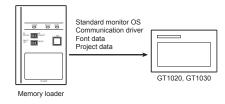
Refer to the following manual for details about operating instructions of GT Designer2 or GT Designer3. GT Designer2 Version
Basic Operation/Data Transfer Manual

GT Designer3 Version

Screen Design Manual (Fundamentals)

10. To write the data from the Memory loader to the GOT The standard monitor OS, communication driver, font data, and project data are written from the memory loader to the GOT. The operation procedure is described

10.1 When the Data selection switch is [PROJECT + OS]



1) Connect the memory loader to the GOT.
2) Turn ON the GOT by pressing the lower right corner of the GOT. (The GOT startups with OS installation screen.)

The OS can be transferred from GT Designer2 Version2 or GT Designer3 Version ☐ without displaying the OS installation screen depending on the combination of the GOT and the standard monitor OS. Refer to the following manual for details about OS installation screen.

GT10 User's Manual

3) Set the Data selection switch to [PROJECT + OS] and the RD/WR selection switch to IWR1, and select the data to be transferred and transfer direction

4) Press the ENT key to determine the data to be transferred and transfer direct (SET/RUN LED will be orange.) *: If the next operation is not performed within 30 seconds after the ENT key is pressed, SET/RUN LED will be unlit, and the operations that have been made will

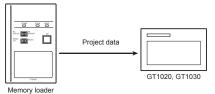
: When the Data selection switch or the RD/WR selection switch is operated after the data to be transferred and the transfer direction are determined, the

operations that have been made will be canceled. Press the ENT key again to start the transfer. (SET/RUN LED will be green flashing.)

6) Turn OFF the GOT and remove the memory loader after the transfer is completed. (SET/RUN LED will be green flashing.)

Refer to the "Chapter 12 Troubleshooting" for details on handling errors during

10.2 When the Data selection switch is [PROJECT]



) Connect the memory loader to the GOT and turn ON the GOT. 2) Set the Data selection switch to [PROJECT] and the RD/WR selection switch to [WR], and select the data to be transferred and transfer direction.

3) Press the ENT key to determine the data to be transferred and transfer direction (SET/RUN LED will be orange.)
"If the next operation is not performed within 30 seconds after the ENT key is pressed, SET/RUN LED will be unlit, and the operations that have been made will

en the Data selection switch or the RD/WR selection switch is opera after the data to be transferred and the transfer direction are determined, the operations that have been made will be canceled. 4) Press the ENT key again to start the transfer. (SET/RUN LED will be green

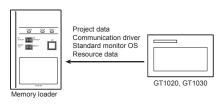
5) Turn OFF the GOT and remove the memory loader after the transfer is completed. (SET/RUN LED will be green flashing.)

Refer to the "Chapter 12 Troubleshooting" for details on handling errors during

11. To read out the data from the GOT to the Memory

The standard monitor OS, communication driver, project data, and resource data are read out from the GOT to the memory loader. The operation procedure is described below.

11.1 When the Data selection switch is [PROJECT + OS]



1) Turn OFF the Write protection switch.

2) Connect the memory loader to the GOT and turn ON the GOT.

Set the Data selection switch to [PROJECT + OS] and the RD/WR select switch to [RD], and select the data to be transferred and transfer direction.

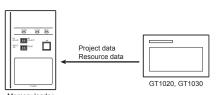
4) Press the ENT key to determine the data to be transferred and transfer direction. (SET/RUN LED will be orange.) : If the next operation is not performed within 30 seconds after the ENT key is pressed, SET/RUN LED will be unlit, and the operations that have been made will

· When the Data selection switch or the RD/WR selection switch is operated after the data to be transferred and the transfer direction are determined, the operations that have been made will be canceled. 5) Press the ENT key again to start the transfer. (SET/RUN LED will be green

6) Turn OFF the GOT and remove the memory loader after the transfer is completed. (SET/RUN LED will be green flashing.)

Refer to the "Chapter 12 Troubleshooting" for details on handling errors of

11.2 When the Data selection switch is [PROJECT]



1) Turn OFF the Write protection switch.

2) Connect the memory loader to the GOT and turn ON the GOT.

3) Set the Data selection switch to [PROJECT] and the RD/WR selection switch to [RD], and select the data to be transferred and transfer direction. 4) Press the ENT key to determine the data to be transferred and transfer dir (SET/RUN LED will be orange.)

*: If the next operation is not performed within 30 seconds after the ENT key is pressed, SET/RUN LED will be unlit, and the operations that have been made will be

: When the Data selection switch or the RD/WR selection switch is operated, after the data to be transferred and the transfer direction are determined, the operations that have been made will be canceled. 5) Press the ENT key again to start the transfer. (SET/RUN LED will be green flashing.)

6) Turn OFF the GOT and remove the memory loader after the transfer is completed. (SET/RUN LED will be green flashing.)

Refer to the "Chapter 12 Troubleshooting" for details on handling errors during

12. Troubleshooting

12.1 GOT error message

When communication between the GOT and the memory loader does not work, check the following contents depending on the GOT error messages.

GOT error message	Remedy	
Write protection switch is ON	Write protection switch ON Turn OFF the Write protection switch.	
Wrong GOT model is connected	The GOT type that is set in the data to be transferred differs from that of the GOT to which the data is transferred. Check the GOT type to which the memory loader is connected.	
Corrupt data or OS version variance	The data to be transferred is broken, or the major version of the standard monitor OS is different from that of the project data. • Write the standard monitor OS, communication driver, and project data from GT Designer2 or GT Designer3 to the memory loader again, and then transfer them to the GOT again. • Set the Data selection switch to [PROJECT + OS] and read out all data from the GOT to the memory loader, and then transfer them to the GOT again.	
Communication error	Communication error occurs between the GOT and the memory loader. • Check the connection with the communication cable. • Check that power supply is stable. (lighting of POWER LED)	
GOT contains a system password	Password is set in the project data. Reset the password with the numeric keypad on the GOT.	
OS installation screen isn't active	OS installation screen is not active Install the data after the OS installation screen is displayed or the GOT.	

12.2 LED display on the memory loader

State of

If communication cannot be established between the GOT and a PC using memory loader, confirm the following status by checking display LED in memory

Contents

POWER LED	
POWER LED is lit.	The DC5V power supply from the GOT or the personal computer is normally supplied. In case of no communication, check the status of ERROR LED.
POWER LED is not lit.	The DC 5V power supply from the GOT or the personal computer is not supplied. Check the items below. • Turn ON the power. • Check the connection with the USB cable. • Check the connection with the GOT. • Check that PLC is not overloaded when PLC supplies the power to the GOT connected to the memory loader.
State of ERROR LED	Contents
Green light	Write protection switch ON Turn OFF the Write protection switch.
Green flashing	The GOT type that is set in the data to be transferred differs from that of the GOT to which the data is transferred. Check the GOT type to which the memory loader is connected.
Red light	The data to be transferred is broken, or the major version of the standard monitor OS is different from that of the project data. Write the standard monitor OS, communication driver, and project data from GT Designer2 or GT Designer3 to the memory loader again, and then transfer them to the GOT again. Set the Data selection switch to [PROJECT + OS] and read out all data from the GOT to the memory loader, and then transfer them to the GOT again.
Red flashing	Communication error occurs between the GOT and the memory loader. Check the connection with the communication cable. Check that power supply is stable. (lighting of POWER LED)
Red ⇔ Green	Password is set in the project data. Reset the password with the numeric keypad on the GOT.
Orange ⇔ Green	OS installation screen is not active Install the data after the OS installation screen is displayed on the GOT.

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